

No.



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

GERMIGNON SAS

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE FOREGOING PURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

POTATO

'JULIETTE'

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this twenty-seventh day of September, in the year two thousand and seven.

Attest:

Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

Secretary of Agriculture



REPRODUCE LOCALLY. Include form number and date on all reproductions.

FORM APPROVED - OMB NO. 0581

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE DIVISION - PLANT VARIETY PROTECTION OFFICE

The following statements are made in accordance with the Privacy Act, 1974 (5 U.S.C. 552a).

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE
(Instructions and information collection burden statement on reverse)

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF APPLICANT(S) (as it is to appear on the Certificate)		2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER	3. VARIETY NAME
GERMICOPA SAS		G86TT278.3	JULIETTE
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country)		5. TELEPHONE (include area code)	FOR OFFICIAL USE ONLY PVPO NUMBER 200100104 DATE 02/08/01 FILING AND EXAMINATION FEE 2,460.00 DATE 02-08-2001 CERTIFICATION FEE 768.00 + 925.00 DATE 08-06-2001
Allée Loeiz Herrieu, 1 29334 Quimper Cedex FRANCE		+33 2 98 10 01 00 +33 2 98 10 01 20	
7. GENUS AND SPECIES NAME	B. FAMILY NAME (Botanical)		
Solanum tuberosum	tuberosum		
9. CROP KIND NAME (Common name)			
POTATO			
10. IF THE APPLICANT NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION (corporation, partnership, association, etc.) (Common name)			
11. IF INCORPORATED, GIVE STATE OF INCORPORATION			
FRANCE			
12. DATE OF INCORPORATION			
June 29, 2001			

13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS		14. TELEPHONE (include area code)
Brian C. Cholewa Quarles & Brady LLP 33 East main Street, Suit 900 P.O. Box 2113 Madison WI 53701-2113		608/251-5000
15. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on reverse)		16. FAX (include area code)
<input checked="" type="checkbox"/> Exhibit A. Origin and Breeding History of the Variety <input checked="" type="checkbox"/> Exhibit B. Statement of Distinctness <input checked="" type="checkbox"/> Exhibit C. Objective Description of the Variety <input checked="" type="checkbox"/> Exhibit D. Additional Description of the Variety (AFLP markers + UPOV variety description) <input type="checkbox"/> Exhibit E. Statement of the Basis of the Applicant's Ownership <input type="checkbox"/> Voucher Sample (2,500 viable untreated seeds or, for tuber propagated varieties verification that tissue culture will be deposited and maintained in a public repository) <input type="checkbox"/> Filing and Examination Fee (\$2,460), made payable to "Treasurer of the United States" (Mail to PVPO)		608/251-9166 bcholewa@quarles.com

17. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY, AS A CLASS-OF CERTIFIED SEED? (See Section 87(a) of the Plant Variety Protection Act.)
 YES (If "yes," answer items 18 and 19 below) NO (If "no," go to item 20)

18. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?
 YES NO

19. IF "YES" TO ITEM 18, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED?
 FOUNDATION REGISTERED CERTIFIED

20. HAS THE VARIETY OR A HYBRID PRODUCED FROM THE VARIETY BEEN RELEASED, USED, OFFERED FOR SALE, OR MARKETED IN THE U.S. OR OTHER COUNTRIES?
 YES (If "yes," give names of countries and dates) NO

FRANCE, 02/10/1997

21. The applicant(s) declare that a viable sample of basic seed of the variety will be furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate.

The undersigned applicant(s) (are) the owner(s) of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 41, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.

Applicant(s) (are) informed that false representation herein can jeopardize protection and result in penalties.

SIGNATURE OF APPLICANT (Owner(s))	SIGNATURE OF APPLICANT (Owner(s))
NAME (Please print or type)	NAME (Please print or type)
Nicholas J. Seay	
CAPACITY OR TITLE	CAPACITY OR TITLE
ATTORNEY FOR APPLICANT, Feb 6, 2001	
DATE	DATE

INSTRUCTIONS

GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed Exhibits A, B, C, E; (3) at least 2,500 viable untreated seeds, or for tuber reproduced varieties verification that a viable (*in the sense that it will reproduce an entire plant*) tissue culture will be deposited and maintained in a public repository prior to issuance of a certificate; (4) check drawn on a U.S. bank for \$2,450 (\$300 filing fee and \$2,150 examination fee), payable to "Treasurer of the United States" (*See Section 97.175 of the Regulations and Rules of Practice.*) Partial applications will be held in the PVPO for not more than 30 days, then returned to the applicant as unfiled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 500, NAL Building, 1030 Baltimore Blvd., Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$300 for issuance of the Certificate.

Plant Variety Protection Office
Telephone: (301) 504-5518

#200100104

ITEM

- 16a. Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
- (2) the details of subsequent stages of selection and multiplication;
- (3) evidence of uniformity and stability; and
- (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified.
- 16b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
- (1) identify these varieties and state all differences objectively;
- (2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences;
- (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 16c. Exhibit C forms are available from the PVPO for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 16d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 16e. Section 52(4) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. The applicant may be the actual breeder, the employee of the breeder, the owner through purchase or inheritance, etc.
17. If "Yes" is specified (*seed of this variety be sold by variety name only, as a class of certified seed*), the applicant may NOT reverse this affirmative decision after the variety has been sold and so labelled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (*See P.L. 103-349 for additional information.*)
20. See Sections 41, 42, and 43 of the Act and Section 97.175 of the regulations for eligibility requirements.

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment during the life of the application/certificate. There is no charge for filing a change of address. The fee for filing a change of ownership or assignment is specified in Section 97.175 of the regulations. (*See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of Regulations and Rules of Practice.*)

To avoid conflict with other variety names in use, the applicant should check the variety names proposed by contacting: Seed Branch, AMS, USDA, Room 213, Building 306, Beltsville Agricultural Research Center-East, Beltsville, MD 20705.
Telephone: (301) 504-8089.

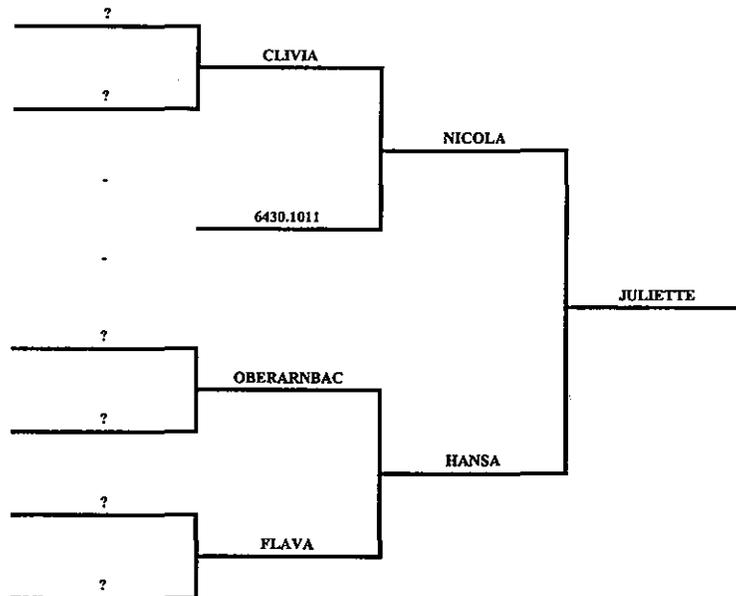
Public reporting burden for this collection of information is estimated to average 30 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Agriculture, Clearance Officer, OIRM, AG Box 7630, Washington, DC 20260; and to the Office of Management and Budget, Paperwork Reduction Project (OMB No. 0581-0058), Washington, DC 20503.

JULIETTE

Origin: FRANCE - Brittany - Châteauneuf-du-Faou (Finistère)

Breeding: crossing NICOLA X HANSA (1985)

NICOLA and HANSA are german variety, public varieties in France.



seed sowing : may 1986.

selection criteria : on a regular basis, yield is one of the main trait. Yield is assessed according to the maturity group over many locations around Western Europe for a 4 year-period of time by the applicant (as part of the breeding work) then over 10 to 15 locations in France for a 2 year-period when the official testing for registration is performed by CTPS (Ministry of Agriculture -France). Also, a number of quality traits are evaluated both by the applicant and CTPS, including cooking quality, mechanical damage, disease resistances (late blight, common scab, wart disease, potato cyst nematod) and physiological disorder (hallow heart, internal rust).

JULIETTE has been selected and registered in Europe as a firm flesh potato having high standards for the cooking quality. Main reason for selection is the unique combination of its long tuber shape, deep yellow skin and flesh color, high level of resistances to silver scab, netted scab, leaf and tuber late blight and low susceptibility to pitted scab and powdery scab. It is resistant to golden nematod. JULIETTE is not suitable for processing. It is rather resistant to hollow heart but susceptible to brown spot. Yield is above control of the same maturity group (105% of BF 15) and below to the leading variety Charlotte (95%). Dormancy is long and makes JULIETTE an easy variety to store without sprout inhibitor. On the other hand, it is susceptible to mechanical damage (bruising).

application for registration : France, 10/24/1994.

registration: France, 05/17/97.

Maintenance : clonal reproduction, France, GERMICOPA

Stability & Uniformity : - official testing : 2 years : 1995-1996 (see UPOV variety description).
- breeder's experience : no variant, no off-type reported yet.

Differences from NICOLA and HANSA :

JULIETTE is easily distinguished from both NICOLA and HANSA by its longer tuber shape and smaller tuber size. Also, the disease resistance set (late blight, scabs, nematod) is unique to JULIETTE.

Informations for Registrations on PBR and National List

Family name (botanical): *Solanum tuberosum* – Potato

Proposed name: JULIETTE

Breeder's reference : G86TT278.3

Applications in other countries:

	Application Country - Date	Ref.N° of application	Stage	Ref.N° of registration	End of PBR	Variety name or Breeder's reference
Plant Breeder's Rights :	EU - 13/10/97	97/1128	D	EU3009	31/12/2028	JULIETTE JULIETTE
National List :	F - 24/10/94 GB - 02/11/96	68814 4/617	D D	68814 AFP4/617		JULIETTE JULIETTE

Priority date : NO

Country, date and variety name of the first sale in UPOV's membership :

F – February 10, 1997 (JULIETTE)

Examens techniques à des fins officielles : F, CH, D, GB, NL

DUS experiments (Distinctivness, Uniformity et Stability) in Holland (Wageningen) in 1995 et 1996.

Maintenance methodology : clonal reproduction (field+in vitro)
location: Châteauneuf-du-Faôu (France),
maintainor : Germicopa SA

Breeding :

G.M.O ? : NO

Origin location : France

genetics : NICOLA x HANSA (S.tuberosum X S.tuberosum)

year of crossing : 1985

screening : 1986 - 1994

sowing : mai 1986

JULIETTE has been selected accordingly to the technical traits evaluated and reported on french national catalog, category « chair ferme » (“firm flesh” or “salad”). Tuber shape is long oval, tuber size is medium to small and uniform, with shallow eyes, a yellow skin and a yellow yellow flesh color.

Yield and cooking quality, as defined by the cooking group A-AB (EAPR), no after cooking discoloration and a good taste have been selected after 6 years of multilocal field trials around France.

Pest and disease resistances (late blight, scabs, roting, nematods) were being evaluated in lab tests or field tests.

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Exhibit B

Based on overall morphology, JULIETTE is most similar to CHARLOTTE.
Applicant's new variety *Most similar comparison variety(ies)*

JULIETTE most clearly differs from CHARLOTTE in the following traits:
Applicant's new variety *Most similar comparison variety(ies)*

Name the specific trait, then list the value of that trait for each variety in the comparison. Attach appropriate supporting evidence (see the Guidelines for Presenting Evidence in Support of Variety Distinctness, available from the PVP Office or website).

<i>Eg. Terminal leaflet tip shape</i> <i>Eg. Corolla inner Color</i> <i>Eg. NumberEye/Tuber</i>	<i>Cuspidate</i> <i>Violet (85A)</i> <i>15 +/- 2 (N=100)</i>	<i>Obtuse</i> <i>Red Purple (74B)</i> <i>30 +/- 4 (N=100)</i>	<i>photograph attached</i> <i>Royal Horticultural</i> <i>Society Colour Chart</i> <i>statistics attached</i>
1. Qualitative traits:	Applicant's New Variety <u>Juliette</u>	1 st Comparison Variety <u>Charlotte</u>	Location of Evidence
2. Color traits:	corolla inner surface color is white; 5RP is 5/8 to 5/10, Munsell; has a weak anthocyanin coloration of the calyx.	corolla inner surface color is red-violet; has no anthocyanin coloration of the calyx.	
3. Quantitative traits:	has mid-season maturity, 115 days after planting; stem wings are absent; produces less pollen than Charlotte.	has early maturing, 105 days after planting; stem wings are weak.	
4. Other:	carries the H1 gene for resistance to globoderra rostochiensis (Golden nematode) and is resistant to pathotype RO1-4.	does not carry the H1 gene and is susceptible to all pathotypes.	

Use additional tables to present clear differences for additional comparison varieties. Use additional pages to present supporting evidence.

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EXHIBIT B – STATEMENT OF DISTINCTNESS

JULIETTE

The variety JULIETTE is most similar to the variety CHARLOTTE; however, JULIETTE differs from CHARLOTTE :

- in maturity class : Juliette and Charlotte were evaluated for maturity class during 2 years in different locations, by CTPS which performs official tests for variety registration in France, they were compared to standards (see annexe: extract from “1995-2001, *Bulletin des Variétés, Pomme de terre*” edited by GEVES). Juliette has a score 5-6 equal to an average of 115 days after planting (110 to 130 days). Charlotte has a score 7 equal to an average of 105 days after planting (90 to 120 days). So variety JULIETTE is a mid-season maturity: 115 days after planting vs. variety CHARLOTTE is an early maturity : 105 days after planting.

- in stem wings : absent for Juliette vs weak for CHARLOTTE.

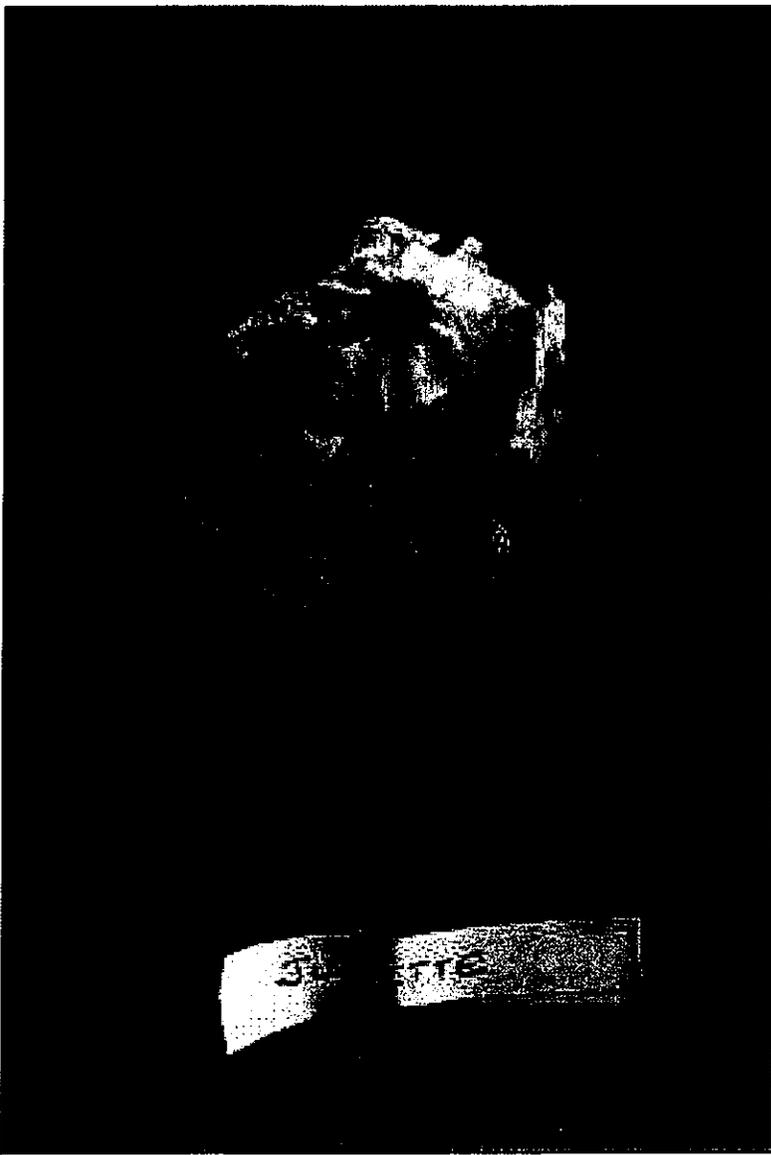
- in corolla inner surface color : JULIETTE is white and CHARLOTTE is red-violet; ^{5 RP 4/1 vs.} 5RP 5/8 to 5/10, Munsell. ^{LMC} per correspondence May 15, 2007

In Exhibit C, other differences are documented between the two varieties. Compared to CHARLOTTE, JULIETTE has a weak anthocyanin coloration of the calyx and CHARLOTTE has none. JULIETTE produces less pollen than CHARLOTTE.

The variety JULIETTE carries the H1 gene for resistance to *Globodera rostochiensis* (Golden nematod) and is resistant to pathotype RO1-4, whereas CHARLOTTE does not have the H1 gene and is susceptible to all pathotypes.

“See AFLPs Analysis in Exhibit D”

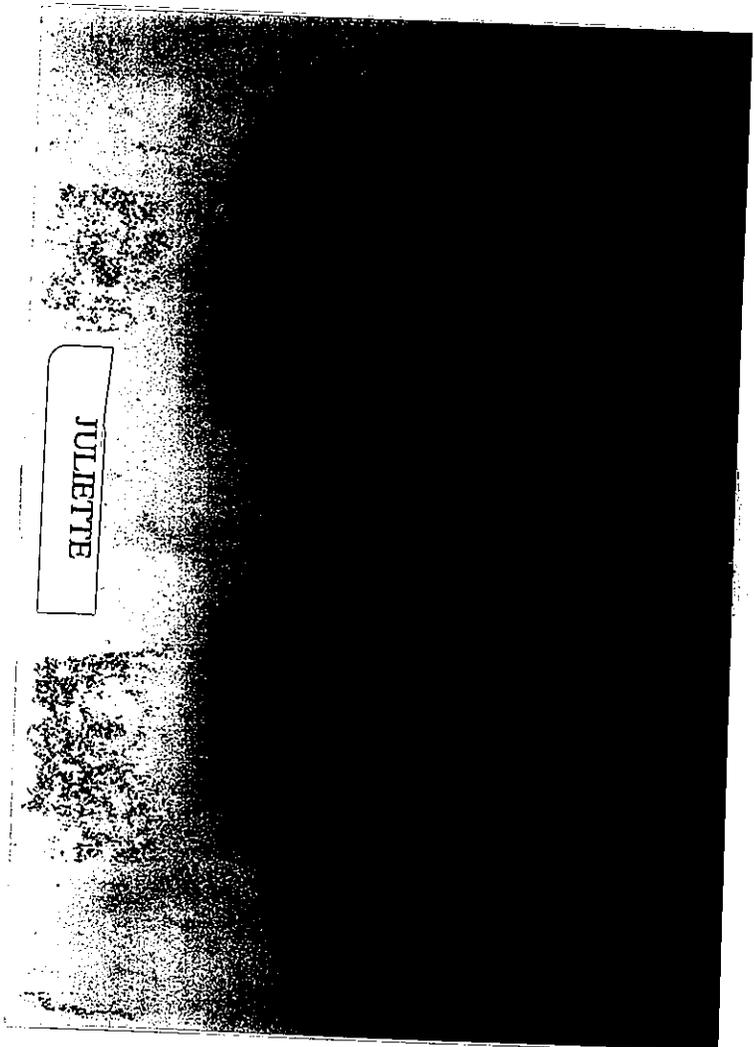
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UPOV variety description

- 1. Reference number of reporting authority : ARD 1241
 - 2. Reference number of requesting authority :
 - 3. Breeder's reference :
 - 4. Applicant :
-
- 5. Botanical name of taxon : Solanum tuberosum L.
 - 6. Common name of taxon : Potato
 - 7. Variety denomination :
 - 8. Document number and date UPOV guidelines : TG/23/5 d.d. 21-11-1986
 - 9. Document number and/or date of national test guidelines :
 - 10. Testing authority : Raad v/h Kwekersrecht, Wageningen, NL
 - 11. Testing station(s) and place(s) : CPRO-DLO, Wageningen
 - 12. Period of testing : 1995/1996
 - 13. Date and place of issue of document : 08-11-1996, Wageningen

14. Group: (if characteristics of number 15 are used for grouping, they are marked with a "G" in that number).

UPOV No.	Characteristics	States of expression	Note	Remarks
3.	Lightsprout: anthocyanin coloration of base	red-violet	1	
38.	Inflorescence: flower corolla: color of inner side	white	1	
47.	Tuber: color of skin	yellow	1	



Reference number of reporting authority:

ARD 1241

15. Characteristics included in the UPOV guidelines or national test guidelines

UPOV No.	Characteristics	States of expression	Note	Remarks
1.	Lightsprout: size	medium	5	
2.	Lightsprout: shape	conical	3	
3.G	Lightsprout: anthocyanin coloration of base	red-violet	1	
4.	Lightsprout: intensity of anthocyanin coloration of base	strong	7	
5.	Lightsprout: pubescen of base	strong	7	
6.	Lightsprout: size of tip	medium	5	
7.	Lightsprout: habit of tip	closed to medium	4	
8.	Lightsprout: intensity of anthocyanin coloration of tip	weak	3	
9.	Lightsprout: pubescens of tip	medium	5	
10.	Lightsprout: number of root tips	medium to many	6	
11.	Lightsprout: protrusion of lenticels	weak to medium	4	
12.	Lightsprout: length of lateral shoots	short to medium	4	
13.	Plant: height	medium	5	
14.	Plant: type	intermediate type	2	
15.	Plant: growth habit	erect to semi erect	4	
16.	Stem: thickness of main stem	medium	5	
17.	Stem: extension of anthocyanin coloration	weak	3	
18.	Leaf: size	medium to large	6	



Reference number of reporting authority:

ARD 1241

15. Characteristics included in the UPOV guidelines or national test guidelines

UPOV No.	Characteristics	States of expression	Note	Remarks
19.	Leaf: silhouette	medium to open	6	
20.	Leaf: intensity of green color	medium	5	
21.	Leaf: extension of anthocyanin coloration of midrib	absent or very weak	1	
22.	Leaflet: size	medium	5	
23.	Leaflet: width	medium	5	
24.	Leaflet: frequency of coalescence	low	3	
25.	Leaflet: waviness of margin	weak	3	
26.	Leaflet: depth of veins	shallow to medium	4	
27.	Leaflet: anthocyanin pigmentation of blade of young leaflets at apical rosette	absent	1	
28.	Leaflet: glossiness of the upper side	medium	5	
29.	Leaflet: (midrib): frequency of secondary leaflets	medium	5	
30.	Leaflet: frequency of secondary leaflets on terminal leaflet	medium	5	
31.	Leaflet: frequency of secondary leaflets on lateral leaflet	low to medium	4	
32.	Leaflet: size of secondary leaflet on lateral leaflet	small to medium	4	
33.	Inflorescence: size	medium	5	
34.	Inflorescence: anthocyanin coloration of peduncle	very weak to weak	2	
35.	Inflorescence: frequency of flowers	medium	5	



Reference number of reporting authority:

ARD 1241

15. Characteristics included in the UPOV guidelines or national test guidelines

UPOV No.	Characteristics	States of expression	Note	Remarks
36.	Inflorescence: anthocyanin coloration of bud	weak	3	
37.	Inflorescence: flower corolla: size	medium	5	
38.G	Inflorescence: flower corolla: color of inner side	white	1	
39.	Inflorescence: corolla: intensity of anthocyanin coloration of inner side in colored flower	-	-	
40.	Inflorescence: corolla: anthocyanin coloration of outer side in white flower	absent	1	
41.	Inflorescence: corolla: size of white tips in colored flower	-	-	
42.	Inflorescence: frequency of fruits	very few to few	2	
43.	Plant: time of maturity	medium	5	
44.	Tuber: shape	long	5	
45.	Tuber: depth of eyes	shallow	3	
46.	Tuber: smoothness of skin	medium	5	
47.G	Tuber: color of skin	yellow	1	
48.	Tuber: color of base of eye	yellow	1	
49.	Tuber: color of flesh	yellow	4	
50.	Tuber: anthocyanin coloration of skin in reaction to light (Yellow skinned varieties)	weak to medium	4	



Reference number of reporting authority:

ARD 1241

16. Similar varieties and differences in relation to those varieties

Denomination of similar variety	Characteristics in which the similar variety is different	State of expression of similar variety	State of expression of candidate variety
Sigma	Lightsprout: intensity of anthocyanin coloration of base	2	7

17. Additional information

a) Additional data :

b) Remarks :



NAME OF APPLICANT(S) GERMICOPA SAS ADDRESS (Street and No. or R.F.D. No., City, State, and Zip Code) Allée Lociz Herriou, 1 29334 Quimper Cedex FRANCE	FOR OFFICIAL USE ONLY PVPO NUMBER 200/0010.4
	VARIETY (V) NAME JULIETTE
	TEMPORARY OR EXPERIMENTAL DESIGNATION G86TT278.3

REFERENCE VARIETIES: Enter the reference variety name in the appropriate box

Reference Variety 1 (R1)	Reference Variety 2 (R2)	Reference Variety 3 (R3)	Reference Variety 4 (R4)
CHARLOTTE	KENNEBEC	RUSSET BURBANK	SNOWDEN

1. MARKET CHARACTERISTICS:

MARKET CLASS:

1 = Yellow-flesh tablestock; 2 = Round-white tablestock; 3 = Chip-processing; 4 = Frozen-processing; 5 = Russet tablestock; 6 = Other

V	1	R1	1	R2	2	R3	5	R4	3
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2. PLANT CHARACTERISTICS:

GROWTH HABIT: (See figure 1)

3 = Erect (>45° with ground); 5 = Semi-erect (30-45° with ground); 7 = Spreading.

V	5	R1	5	R2	5	R3	7	R4	5
---	---	----	---	----	---	----	---	----	---

TYPE:

1 = Stem (foliage open, stems clearly visible); 2 = Intermediate; 3 = Leaf (Foliage closed, stems hardly visible)

V	1	R1	2	R2	3	R3	3	R4	2
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MATURITY: Days after planting (DAP) at vine senescence

V	115	R1	105	R2	110	R3	130	R4	116
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PLANTING DATE:

V	5/15/00	R1	5/15/00	R2	5/15/00	R3	5/15/00	R4	5/15/00
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REGION/AREA:

V	France/ Bretagne	R1	France/ Bretagne	R2	France/ Bretagne	R3	France/ Bretagne	R4	France/ Bretagne
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MATURITY CLASS:

1 = Very Early (<100 DAP); 2 = Early (100-110 DAP); 3 = Mid-season (111-120 DAP); 4 = Late (121-130 DAP); 5 = Very Late (>130 DAP).

V	3
---	---

R1	2
----	---

R2	2
----	---

R3	4
----	---

R4	3
----	---

3. STEM CHARACTERISTICS: Measure at early first bloom

STEM ANTHOCYANIN COLORATION:

1 = Absent; 3 = Weak; 5 = Medium; 7 = Strong; 9 = Very Strong

V	1
---	---

R1	1
----	---

R2	1
----	---

R3	3
----	---

R4	1
----	---

STEM WINGS: (See figure 12)

1 = Absent; 3 = Weak; 5 = Medium; 7 = Strong; 9 = Very Strong

V	1
---	---

R1	3
----	---

R2	5
----	---

R3	3
----	---

R4	3
----	---

I. LEAF CHARACTERISTICS:

LEAF COLOR: Observe fully developed leaves located on middle 1/3 of plant

1 = Yellowish-green; 2 = Olive-green; 3 = Medium green; 4 = Dark green; 5 = Grey-green; 6 = Other

V	4
---	---

R1	3
----	---

R2	4
----	---

R3	2
----	---

R4	1
----	---

LEAF COLOR: Observe fully developed leaves located on middle 1/3 of plant and circle the appropriate color chart.

Royal Horticulture Society Color Chart value or Munsell Color Chart value

V	7.5GY 5/4 to 5/6
---	---------------------

R1	7.5GY 5/4 to 5/6
----	---------------------

R2	7.5GY 4/4 to 4/6
----	---------------------

R3	7.5GY 4/4 to 4/6
----	---------------------

R4	7.5GY 5/4 to 5/6
----	---------------------

LEAF PUBESCENCE DENSITY:

1 = Absent; 2 = Sparse; 3 = Medium; 4 = Thick; 5 = Heavy

V	2
---	---

R1	2
----	---

R2	2
----	---

R3	2
----	---

R4	2
----	---

LEAF PUBESCENCE LENGTH:

1 = None; 2 = Short; 3 = Medium; 4 = Long; 5 = Very long

V	2
---	---

R1	2
----	---

R2	2
----	---

R3	2
----	---

R4	2
----	---

(Note: Descriptor #19 can be used to describe the type and length of the glandular trichomes observed.)

LEAF SILHOUETTE: (See figure 2)

1 = Closed; 3 = Medium; 5 = Open

V	3
---	---

R1	5
----	---

R2	5
----	---

R3	5
----	---

R4	3
----	---

PETIOLES ANTHOCYANIN COLORATION:

1 = Absent; 3 = Weak; 5 = Medium; 7 = Strong; 9 = Very Strong

V	1
---	---

R1	1
----	---

R2	1
----	---

R3	1
----	---

R4	1
----	---

LEAF STIPULES SIZE: (See figure 13)

1 = Absent; 3 = Small; 5 = Medium; 7 = Large

V	-
---	---

R1	-
----	---

R2	-
----	---

R3	-
----	---

R4	-
----	---

TERMINAL LEAFLET SHAPE: (See figure 3 & 11)1 = Narrowly ovate; 2 = Medium ovate; 3 = Broadly ovate; 4 = Lanceolate; 5 = Elliptical;
6 = Obovate; 7 = Oblong; 8 = Other _____

V	2
---	---

R1	2
----	---

R2	3
----	---

R3	5
----	---

R4	2
----	---

TERMINAL LEAFLET TIP SHAPE: (See figure 4 & 11)

1 = Acute; 2 = Cuspidate; 3 = Acuminate; 4 = Obtuse; 5 = Other _____

V	3
---	---

R1	3
----	---

R2	1
----	---

R3	1
----	---

R4	3
----	---

TERMINAL LEAFLET BASE SHAPE: (See figure 5 & 11)

1 = Cuneate; 2 = Acute; 3 = Obtuse; 4 = Cordate; 5 = Truncate; 6 = Lobed; 7 = Other _____

V	2
---	---

R1	3
----	---

R2	3
----	---

R3	3
----	---

R4	3
----	---

TERMINAL LEAFLET MARGIN WAVINESS:

1 = Absent; 2 = Slight; 3 = Weak; 4 = Medium; 5 = Strong

V	2
---	---

R1	2
----	---

R2	2
----	---

R3	2
----	---

R4	4
----	---

NUMBER OF PRIMARY LEAFLET PAIRS: (See figure 11)**AVERAGE:**

V	3
---	---

R1	4
----	---

R2	3
----	---

R3	3
----	---

R4	3
----	---

RANGE:

V	3 to 4
---	--------

R1	3 to 4
----	--------

R2	2 to 3
----	--------

R3	2 to 3
----	--------

R4	2 to 3
----	--------

PRIMARY LEAFLET TIP SHAPE: (See figure 4 & 11)

1 = Acute; 2 = Cuspidate; 3 = Acuminate; 4 = Obtuse; 5 = Other _____

V	3
---	---

R1	3
----	---

R2	1
----	---

R3	3
----	---

R4	1
----	---

PRIMARY LEAFLET SHAPE: (See figure 3 & 11)

1 = Narrowly ovate; 2 = Medium ovate; 3 = Broadly ovate; 4 = Lanceolate; 5 = Elliptical; 6 = Obovate; 7 = Oblong; 8 = Other

V	2	R1	1	R2	4	R3	1	R4	2
---	---	----	---	----	---	----	---	----	---

PRIMARY LEAFLET BASE SHAPE: (See figure 5 & 11)

1 = Cuneate; 2 = Acute; 3 = Obtuse; 4 = Cordate; 5 = Truncate; 6 = Lobed; 7 = Other

V	3	R1	3	R2	4	R3	4	R4	3
---	---	----	---	----	---	----	---	----	---

NUMBER OF SECONDARY AND TERTIARY LEAFLET PAIRS: (See figure 11)

AVERAGE:

V	4	R1	10	R2	3	R3	3	R4	3
---	---	----	----	----	---	----	---	----	---

RANGE:

V	3 to 5	R1	8 to 12	R2	3 to 4	R3	2 to 4	R4	2 to 4
---	--------	----	---------	----	--------	----	--------	----	--------

5. INFLORESCENCE CHARACTERISTICS:

NUMBER OF INFLORESCENCE / PLANT:

AVERAGE:

V	4	R1	4	R2	2	R3	3	R4	1
---	---	----	---	----	---	----	---	----	---

RANGE:

V	1 to 6	R1	3 to 8	R2	2 to 3	R3	6 to 12	R4	- to -
---	--------	----	--------	----	--------	----	---------	----	--------

NUMBER OF FLORETS / INFLORESCENCE:

AVERAGE:

V	4	R1	5	R2	2	R3	10	R4	1
---	---	----	---	----	---	----	----	----	---

RANGE:

V	3 to 6	R1	4 to 10	R2	1 to 5	R3	8 to 12	R4	- to -
---	--------	----	---------	----	--------	----	---------	----	--------

OROLLA INNER SURFACE COLOR: Measure predominant color of newly open flower and circle the appropriate color chart Royal Horticulture Society Color Chart value or Munsell Color Chart value

V	white	R1	5RP 5/8 to 5/10	R2	white	R3	white	R4	white
---	-------	----	--------------------	----	-------	----	-------	----	-------

OROLLA OUTER SURFACE COLOR: Measure predominant color of newly open flower and circle the appropriate color chart Royal Horticulture Society Color Chart value or Munsell Color Chart value

V	5RP 9/10 white	R1	5RP 5/8 to 5/10	R2	white	R3	white	R4	white
---	----------------	----	--------------------	----	-------	----	-------	----	-------

red-violet

COROLLA SHAPE: (See figure 6)

1 = Very rotate; 2 = Rotate; 3 = Pentagonal; 4 = Semi-stellate; 5 = Stellate

V	3	R1	3	R2	4	R3	5	R4	-
---	---	----	---	----	---	----	---	----	---

CALYX ANTHOCYANIN COLORATION:

1 = Absent; 3 = Weak; 5 = Medium; 7 = Strong; 9 = Very strong

V	3	R1	1	R2	1	R3	1	R4	-
---	---	----	---	----	---	----	---	----	---

ANTHER COLOR: Measure when newly opened flower is fully expanded and circle the appropriate color chart

Royal Horticulture Society Color Chart value or Munsell Color Chart value

V	-	R1	-	R2	-	R3	-	R4	-
---	---	----	---	----	---	----	---	----	---

ANTHER SHAPE: (See figure 7)

1 = Broad cone; 2 = Narrow cone; 3 = Pear shape cone; 4 = Loose; 5 = Other

V	2	R1	1	R2	3	R3	4	R4	-
---	---	----	---	----	---	----	---	----	---

POLLEN PRODUCTION:

1 = None; 3 = Some; 5 = Abundant

V	3	R1	5	R2	5	R3	1	R4	-
---	---	----	---	----	---	----	---	----	---

STIGMA SHAPE: (See figure 8)

1 = Capitata; 2 = Clavate; 3 = Bi-lobed

V	1	R1	1	R2	1	R3	1	R4	-
---	---	----	---	----	---	----	---	----	---

STIGMA COLOR: Circle the appropriate color chart

Royal Horticulture Society Color Chart value or Munsell Color Chart value

V	7.5GY 7/4 to 7/6	R1	7.5GY 7/4 to 7/6	R2	7.5GY 7/4 to 7/6	R3	7.5GY 7/4 to 7/6	R4	7.5GY 7/4 to 7/6
---	---------------------	----	---------------------	----	---------------------	----	---------------------	----	---------------------

BERRY PRODUCTION: Under field conditions

1 = None; 3 = Low; 5 = Moderate; 7 = Heavy; 9 = Very heavy

V	3	R1	3	R2	1	R3	3	R4	-
---	---	----	---	----	---	----	---	----	---

5. TUBER CHARACTERISTICS:

PREDOMINANT SKIN COLOR:

1 = White; 2 = Light Yellow; 3 = Yellow; 4 = Buff; 5 = Tan; 6 = Brown; 7 = Pink; 8 = Red; 9 = Purplish-red; 10 = Purple; 11 = Dark purple-black; 12 = Other

V	3	R1	3	R2	5	R3	6	R4	5
---	---	----	---	----	---	----	---	----	---

GIVE COLOR CHART VALUE AND CIRCLE THE APPROPRIATE COLOR CHART

Royal Horticulture Society Color Chart value or Munsell Color Chart value.

V	2.5Y 8/6 to 8/8	R1	2.5Y 8/6 to 8/8	R2	2.5Y 8/6 to 8/8	R3	2.5Y 8/6 to 8/8	R4	2.5Y 8/6 to 8/8
---	--------------------	----	--------------------	----	--------------------	----	--------------------	----	--------------------

SECONDARY SKIN COLOR:

1 = Absent; 2 = Present, please describe

V	1	R1	1	R2	1	R3	1	R4	1
---	---	----	---	----	---	----	---	----	---

IF PRESENT, GIVE COLOR CHART VALUE AND CIRCLE THE APPROPRIATE COLOR CHART

Royal Horticulture Society Color Chart value or Munsell Color Chart value

V	-	R1	-	R2	-	R3	-	R4	-
---	---	----	---	----	---	----	---	----	---

SECONDARY SKIN COLOR DISTRIBUTION: If present

1 = Eyes; 2 = Eyebrows; 3 = Splashed; 4 = Scattered; 5 = Spectacled; 6 = Stippled; 7 = Other

V	-	R1	-	R2	-	R3	-	R4	-
---	---	----	---	----	---	----	---	----	---

SKIN TEXTURE:

1 = Smooth; 2 = Rough (flaky); 3 = Netted; 4 = Russetted; 5 = Heavily russetted; 6 = Other

V	1	R1	1	R2	2	R3	5	R4	3
---	---	----	---	----	---	----	---	----	---

TUBER SHAPE: (See figure 10)

1 = Compressed; 2 = Round; 3 = Oval; 4 = Oblong; 5 = Long; 6 = Other

V	5	R1	5	R2	3	R3	3	R4	2
---	---	----	---	----	---	----	---	----	---

TUBE THICKNESS:

1 = Round; 2 = Medium thick; 3 = Slightly flattened; 4 = Flatted; 5 = Other

V	1	R1	2	R2	1	R3	2	R4	1
---	---	----	---	----	---	----	---	----	---

TUBER LENGTH (mm):

AVERAGE:

V	84.7	RI	86.3	R2	88.2	R3	90.5	R4	54.6
---	------	----	------	----	------	----	------	----	------

RANGE:

V	55 to 110	RI	55 to 120	R2	47 to 130	R3	65 to 150	R4	45 to 72
---	-----------	----	-----------	----	-----------	----	-----------	----	----------

STANDARD DEVIATION:

V	12.2	RI	15.7	R2	20.2	R3	25.3	R4	7.5
---	------	----	------	----	------	----	------	----	-----

AVERAGE WEIGHT OF SAMPLE TAKEN:

V	2.4	RI	2.4	R2	1.9	R3	2.1	R4	2.3
---	-----	----	-----	----	-----	----	-----	----	-----

TUBER WIDTH (mm):

AVERAGE:

V	38.2	RI	51.2	R2	64.3	R3	59.1	R4	49.7
---	------	----	------	----	------	----	------	----	------

RANGE:

V	25 to 55	RI	35 to 69	R2	41 to 72	R3	45 to 67	R4	41 to 64
---	----------	----	----------	----	----------	----	----------	----	----------

STANDARD DEVIATION:

V	4.2	RI	8.2	R2	10.3	R3	5.2	R4	5.9
---	-----	----	-----	----	------	----	-----	----	-----

AVERAGE WEIGHT OF SAMPLE TAKEN:

V	2.4	RI	2.4	R2	1.9	R3	2.1	R4	2.3
---	-----	----	-----	----	-----	----	-----	----	-----

TUBER THICKNESS (mm):

AVERAGE:

V	35.7	RI	49.1	R2	59.4	R3	57.2	R4	47.8
---	------	----	------	----	------	----	------	----	------

RANGE:

V	22 to 52	RI	33 to 56	R2	38 to 67	R3	41 to 66	R4	38 to 61
---	----------	----	----------	----	----------	----	----------	----	----------

STANDARD DEVIATION:

V	5.1	RI	6.9	R2	8.2	R3	7.1	R4	5.8
---	-----	----	-----	----	-----	----	-----	----	-----

AVERAGE WEIGHT OF SAMPLE TAKEN:

V	2.4	RI	2.4	R2	1.9	R3	2.1	R4	2.3
---	-----	----	-----	----	-----	----	-----	----	-----

TUBER EYE DEPTH:

1 = Protruding; 2 = Shallow; 3 = Intermediate; 4 = Deep; 5 = Very deep

V	2	RI	2	R2	3	R3	3	R4	3
---	---	----	---	----	---	----	---	----	---

TUBER LATERAL EYES

1 = Protruding; 2 = Shallow; 3 = Intermediate; 4 = Deep; 5 = Very deep

V	2	R1	2	R2	3	R3	3	R4	3
---	---	----	---	----	---	----	---	----	---

NUMBER EYE / TUBER:

AVERAGE:

V	6.1	R1	5.5	R2	6.2	R3	12.4	R4	7.2
---	-----	----	-----	----	-----	----	------	----	-----

RANGE:

V	5	to	8	R1	3	to	8	R2	4	to	8	R3	9	to	14	R4	4	to	10
---	---	----	---	----	---	----	---	----	---	----	---	----	---	----	----	----	---	----	----

DISTRIBUTION OF TUBER EYES:

1 = Predominantly apical; 2 = Evenly distributed

V	1	R1	2	R2	2	R3	2	R4	2
---	---	----	---	----	---	----	---	----	---

PROMINENCE OF TUBER EYEBROWS:

1 = Not prominent; 2 = Slight prominence; 3 = Medium prominence; 4 = Very prominence; 5 = Other

V	2	R1	1	R2	1	R3	2	R4	1
---	---	----	---	----	---	----	---	----	---

PRIMARY TUBER FLESH COLOR: Circle the appropriate color chart

Royal Horticulture Society Color Chart value or Munsell Color Chart value

V	-	R1	-	R2	-	R3	-	R4	-
---	---	----	---	----	---	----	---	----	---

SECONDARY TUBER FLESH COLOR:

1 = Absent; 2 = Present, please describe

V	1	R1	1	R2	1	R3	1	R4	1
---	---	----	---	----	---	----	---	----	---

IF PRESENT, CIRCLE THE APPROPRIATE COLOR CHART:

Royal Horticulture Society Color Chart value or Munsell Color Chart value

V	-	R1	-	R2	-	R3	-	R4	-
---	---	----	---	----	---	----	---	----	---

NUMBER OF TUBER / PLANT:

1 = Low (<8); 2 = Medium (8-15); 3 = High (>15)

V	3	R1	2	R2	2	R3	2	R4	2
---	---	----	---	----	---	----	---	----	---

6. DISEASES CHARACTERISTICS:

DISEASES REACTION: 0 = NOT TESTED; 1 = RESISTANT; 3 = MODERATELY RESISTANT; 5 = MODERATELY SUSCEPTIBLE; 7=SUSCEPTIBLE; 9=HIGHLY SUSCEPTIBLE

BACTERIAL RING ROT: Foliar reaction

V	0	R1	0	R2	0	R3	0	R4	0
---	---	----	---	----	---	----	---	----	---

BACTERIAL RING ROT: Tuber reaction

V	0	R1	0	R2	0	R3	0	R4	0
---	---	----	---	----	---	----	---	----	---

LATE BLIGHT

V	1	R1	5	R2	5	R3	5	R4	7
---	---	----	---	----	---	----	---	----	---

PLRV (leaf roll)

V	5	R1	0	R2	0	R3	0	R4	0
---	---	----	---	----	---	----	---	----	---

PVX

V	3	R1	0	R2	0	R3	0	R4	0
---	---	----	---	----	---	----	---	----	---

PVY

V	7	R1	3	R2	0	R3	0	R4	0
---	---	----	---	----	---	----	---	----	---

OTHER: Common Scab

V	1	R1	3	R2	0	R3	0	R4	0
---	---	----	---	----	---	----	---	----	---

OTHER: Wart Disease

V	7	R1	9	R2	0	R3	0	R4	0
---	---	----	---	----	---	----	---	----	---

7. PESTS CHARACTERISTICS:

PEST REACTION: 0 = NOT TESTED; 1 = RESISTANT; 3 = MODERATELY RESISTANT; 5 = MODERATELY SUSCEPTIBLE; 7=SUSCEPTIBLE; 9=HIGHLY SUSCEPTIBLE

GOLDEN NEMATODE

V	1	R1	7	R2	7	R3	7	R4	7
---	---	----	---	----	---	----	---	----	---

OTHER:

V	0	R1	0	R2	0	R3	0	R4	0
---	---	----	---	----	---	----	---	----	---

8. GENE TRAITS:

INSERTION OF GENES: YES NO

If YES, describe the gene(s) introduced or attach information:

**GERMICOPA**

CRÉATION VARIÉTALE & PLANTS DE POMMES DE TERRE

P.V.P. & C.O.V. Applications

2001

Potato Varieties (*Solanum tuberosum* ssp. *tuberosum*)

GERMICOPA S.A.1, allée Loeiz Herrieu
29334 QUIMPER Cedex

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AFLPs Analysis

Applicant : GERMICOPA SA
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FRANCE

* The analysis was performed on behalf of the applicant, by :

PE AgGen Inc., Applied DNA Services
2411 South 1070 West
Salt Lake City, Utah 84119-1555 USA

having an office in France : **AGROGENE**
620, rue Blaise Pascal, Z.I.
77555 MOISSY CRAMAYEL Cedex

* Technics involved have been fully described :

- *publication* : VOS P. and al. (1995). AFLP : a new technique for DNA fingerprinting.
Nucleic Acids Res 21 : 4407-4414.

- *European patent* : EP 92402629.7

* Molecular standards are included in the first column of each scanned gel and are referenced as A01 to A08 from the Msp1 Digest of pBR322DNA. Base pairs are :

AØ1 : 622 b.p.	AØ5 : 242 b.p.
AØ2 : 527 b.p.	AØ6 : 238 b.p.
AØ3 : 404 b.p.	AØ7 : 217 b.p.
AØ4 : 307 b.p.	AØ8 : 201 b.p.

The couples «Enzyme/Primers» codification Ei Mj is according the Key Gene codification of the 420 markers.

E32M49 : 32 markers	E39M61 : 35 markers
E32M51 : 44 markers	E36M50 : 40 markers
E32M54 : 51 markers	E36M59 : 58 markers
E39M48 : 36 markers	E39M51 : 37 markers
E39M49 : 51 markers	E36M47 : 35 markers

Visual scoring of the 420 markers was achieved by PE AgGen experts as being present (score = 1), absent (score = 2) or missing data (score = m.d.) and reported in tables, together with copies of scanned gels.

It is the opinion of the applicant that slight differences in the presence or the absence of one or more of the makers here presented might occur because of partial failure in repetability of the technics. A 10% difference or less in the number of bands might be a strong evidence for similarity or genetic derivation from a clone or a cultivar.

Therefore, AFLPs markers might not be looked at solely when assessing identity of a clone and a cultivar : all botanical traits might be considered together with AFLPs by potato experts.

AFLP's patterns
of 8 GERMICOPA's Potato Varieties versus Standards cv.BINTJE cv.CHARLOTTE

Table 1

	VARIETY	Amandine	Blondy	Charlotte	Cherie	Cynthia	Juliette	Marine	Sandy	Sylvia	Bintje
	column n°	3	6	8	9	10	15	18	27	29	31
	marker										
<i>N</i>	row n°										
1	E32/M49-M001_X	0	0	0	0	0	0	0	0	0	1
2	E32/M49-M002_X	1	0	1	1	0	0	0	0	1	1
3	E32/M49-M003_X	0	1	0	1	0	0	0	1	1	1
4	E32/M49-M004_X	1	1	1	0	0	1	0	0	0	0
5	E32/M49-M005_X	1	0	1	0	0	0	0	0	1	1
6	E32/M49-M006_X	1	0	1	1	0	0	0	0	0	1
7	E32/M49-M007_X	*	0	0	1	1	1	1	1	1	0
8	E32/M49-M008_X	0	0	0	1	1	1	1	0	1	1
9	E32/M49-M009_X	1	0	1	1	0	1	1	1	1	1
10	E32/M49-M010_X	0	1	0	0	1	0	0	0	0	0
11	E32/M49-M011_X	0	0	0	1	0	0	1	0	0	0
12	E32/M49-M012_X	1	1	1	0	0	0	0	0	1	0
13	E32/M49-M013_X	1	0	1	0	0	0	0	0	0	1
14	E32/M49-M014_X	1	1	1	0	1	1	1	1	1	0
15	E32/M49-M015_X	1	0	1	1	1	1	1	1	1	0
16	E32/M49-M016_X	0	0	0	0	0	0	0	0	0	0
17	E32/M49-M017_X	0	1	1	1	1	1	1	1	0	1
18	E32/M49-M018_X	0	0	1	0	0	0	0	0	0	0
19	E32/M49-M019_X	0	0	1	0	0	0	0	1	0	1
20	E32/M49-M020_X	0	1	0	0	0	0	0	1	0	0
21	E32/M49-M021_X	1	1	0	0	1	0	1	0	1	1
22	E32/M49-M022_X	1	0	1	1	1	1	0	0	0	0
23	E32/M49-M023_X	1	1	1	0	1	1	1	0	1	1
24	E32/M49-M024_X	0	0	0	0	0	0	0	0	0	0
25	E32/M49-M025_X	1	1	1	1	1	1	1	1	1	0
26	E32/M49-M026_X	1	1	1	0	0	0	0	0	1	0
27	E32/M49-M027_X	1	0	1	1	1	1	1	1	1	1
28	E32/M49-M028_X	1	1	0	1	0	1	0	1	0	1
29	E32/M49-M029_X	0	1	0	0	0	0	0	0	0	0
30	E32/M49-M030_X	0	0	0	0	0	0	0	0	0	0
31	E32/M49-M031_X	1	1	1	1	1	1	1	1	1	1
32	E32/M49-M032_X	1	1	1	1	1	1	1	1	1	0

visual scoring
0: absent, 1: present, *: m.d.

AFLP's patterns
of 8 GERMICOPA's Potato Varieties versus Standards cv.BINTJE cv.CHARLOTTE

Table 2

	VARIETY	Amandine	Blondy	Charlotte	Cherie	Cynthia	Julette	Marine	Sandy	Sylvia	Bintje
	column n°	3	6	8	9	10	15	18	27	29	31
N	marker										
	row n°										
33	E32M51-M001_X	1	0	1	0	0	0	1	1	0	1
34	E32M51-M002_X	0	0	0	0	0	0	0	0	0	0
35	E32M51-M003_X	0	0	0	1	1	1	0	0	1	0
36	E32M51-M004_X	1	1	1	0	1	1	1	1	1	1
37	E32M51-M005_X	0	0	0	0	0	0	0	0	0	0
38	E32M51-M006_X	1	0	1	1	1	1	1	1	1	1
39	E32M51-M007_X	1	0	1	0	1	1	1	1	1	1
40	E32M51-M008_X	1	0	0	0	0	0	1	0	0	1
41	E32M51-M009_X	1	0	1	0	0	1	0	0	0	0
42	E32M51-M010_X	1	1	1	0	0	0	0	0	1	0
43	E32M51-M011_X	0	1	0	1	0	0	0	0	0	0
44	E32M51-M012_X	0	0	0	1	0	1	0	1	0	1
45	E32M51-M013_X	1	0	1	1	1	1	0	0	0	0
46	E32M51-M014_X	0	0	1	1	0	1	0	1	0	0
47	E32M51-M015_X	1	1	1	1	1	1	1	1	1	1
48	E32M51-M016_X	1	1	1	1	1	0	1	1	1	1
49	E32M51-M017_X	1	0	0	0	1	1	0	0	1	1
50	E32M51-M018_X	1	1	1	1	1	1	0	0	0	0
51	E32M51-M019_X	0	0	0	0	0	0	0	0	0	0
52	E32M51-M020_X	1	1	1	0	1	0	1	1	1	1
53	E32M51-M021_X	1	0	1	1	0	1	1	1	0	1
54	E32M51-M022_X	0	0	0	0	1	0	0	0	0	0
55	E32M51-M023_X	1	1	1	0	1	1	1	0	1	1
56	E32M51-M024_X	1	1	1	1	1	1	1	1	1	0
57	E32M51-M025_X	0	1	0	1	1	1	1	0	0	0
58	E32M51-M026_X	1	1	1	0	0	1	1	1	0	1
59	E32M51-M027_X	0	0	0	0	0	0	0	1	0	1
60	E32M51-M028_X	1	0	0	0	0	0	0	1	1	0
61	E32M51-M029_X	1	1	1	0	1	1	1	1	1	1
62	E32M51-M030_X	1	1	1	1	1	1	1	1	1	1
63	E32M51-M031_X	0	0	0	0	0	1	0	0	0	0
64	E32M51-M032_X	1	1	0	1	1	1	1	1	1	1
65	E32M51-M033_X	1	1	1	1	0	1	1	1	1	1
66	E32M51-M034_X	0	0	0	1	1	1	0	0	1	0
67	E32M51-M035_X	0	0	0	0	0	0	0	1	0	0
68	E32M51-M036_X	1	1	1	0	0	0	0	0	1	0
69	E32M51-M037_X	1	1	1	0	1	1	0	0	1	1
70	E32M51-M038_X	1	0	0	1	1	1	1	-	0	0
71	E32M51-M039_X	0	0	0	0	1	1	0	1	1	1
72	E32M51-M041_X	0	0	0	0	1	0	1	0	1	0
73	E32M51-M042_X	1	1	1	1	1	1	1	1	1	0
74	E32M51-M043_X	0	1	0	0	0	0	0	0	0	0
75	E32M51-M044_X	1	1	1	1	1	0	1	1	1	1
76	E32M51-M045_X	0	0	0	1	1	0	1	0	1	0

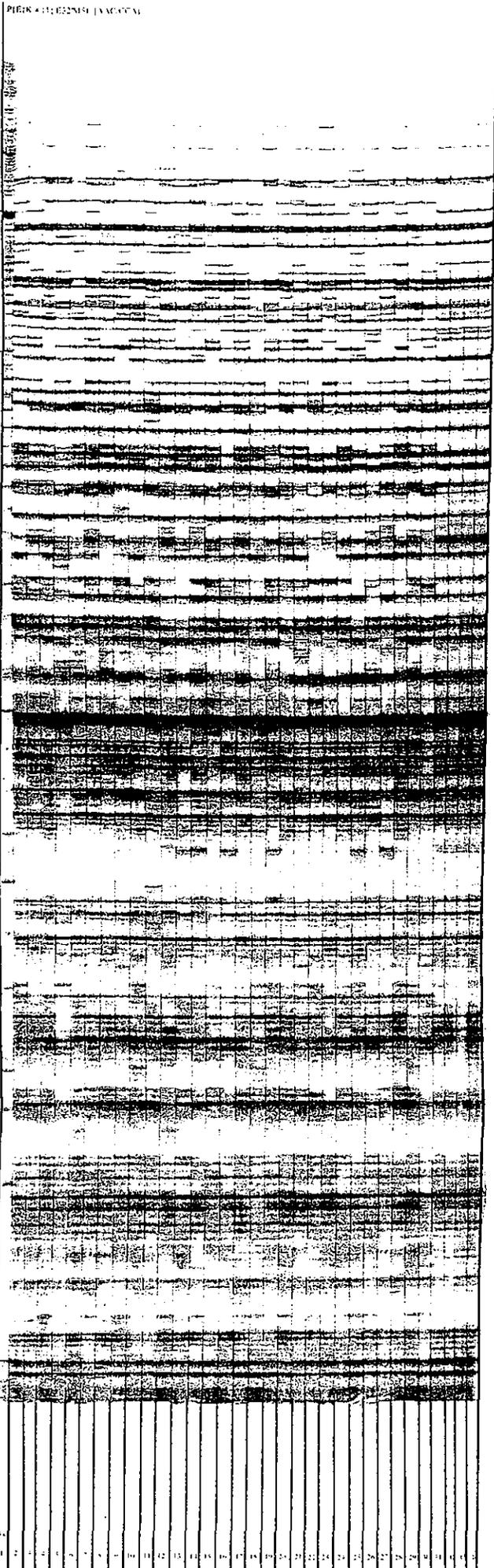
visual scoring

0: absent, 1: present, *: m.d.

200 100 104

PIER 4 (1) E22N51 (1) AC (1) CA

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MI97(1)
MI98(1)
MI99(1)
MI00(1)



AFLP's patterns
of 8 GERMICOPA's Potato Varieties versus Standards cv.BINTJE cv.CHARLOTTE

Table 3

VARIETY	Amandine	Blondy	Charlotte	Cherie	Cynthia	Juliette	Marise	Saucy	Sylvia	Bintje
marker										
row n°										
77	E32/M54-M001_X	1	1	1	1	0	1	1	1	1
78	E32/M54-M002_X	0	0	0	0	0	0	0	0	0
79	E32/M54-M003_X	1	0	0	1	0	0	0	0	0
80	E32/M54-M004_X	0	1	0	1	1	1	0	0	0
81	E32/M54-M005_X	0	1	0	0	0	0	0	0	0
82	E32/M54-M006_X	0	0	0	1	1	1	0	1	0
83	E32/M54-M007_X	0	0	0	0	0	0	0	0	0
84	E32/M54-M008_X	1	*	*	1	*	*	1	0	0
85	E32/M54-M009_X	0	1	1	0	0	0	0	0	0
86	E32/M54-M010_X	1	0	0	0	1	1	0	0	1
87	E32/M54-M011_X	0	0	1	0	0	0	0	0	0
88	E32/M54-M012_X	1	1	0	0	1	0	1	0	0
89	E32/M54-M013_X	0	0	0	0	1	0	1	1	0
90	E32/M54-M014_X	1	0	1	1	1	1	0	0	1
91	E32/M54-M015_X	0	1	0	0	0	1	0	0	1
92	E32/M54-M017_X	0	1	0	0	0	0	0	0	0
93	E32/M54-M018_X	0	1	0	*	1	*	1	1	1
94	E32/M54-M019_X	1	1	0	0	1	1	1	0	1
95	E32/M54-M020_X	0	1	*	0	1	0	1	1	1
96	E32/M54-M021_X	0	0	1	0	0	0	0	0	0
97	E32/M54-M022_X	1	0	0	1	1	1	0	1	1
98	E32/M54-M023_X	1	0	1	1	1	1	0	0	0
99	E32/M54-M024_X	0	0	1	0	0	1	0	1	0
100	E32/M54-M025_X	0	0	0	0	0	0	1	0	0
101	E32/M54-M027_X	0	1	0	0	1	0	1	0	1
102	E32/M54-M028_X	0	1	0	0	0	0	0	0	0
103	E32/M54-M029_X	1	1	1	0	0	0	0	0	1
104	E32/M54-M030_X	1	0	0	1	0	0	1	0	0
105	E32/M54-M031_X	1	1	1	1	1	1	1	1	1
106	E32/M54-M032_X	1	1	0	1	0	1	1	1	1
107	E32/M54-M033_X	1	1	1	1	1	1	0	0	0
108	E32/M54-M034_X	0	0	0	1	1	1	1	1	0
109	E32/M54-M035_X	1	1	0	0	0	0	0	0	1
110	E32/M54-M036_X	1	0	1	1	0	0	0	0	1
111	E32/M54-M038_X	0	0	1	1	1	0	1	0	1
112	E32/M54-M039_X	1	1	md	md	1	md	*	1	*
113	E32/M54-M040_X	1	0	1	1	1	1	1	1	1
114	E32/M54-M041_X	0	1	0	0	0	0	1	0	0
115	E32/M54-M042_X	0	1	0	1	1	0	1	1	0
116	E32/M54-M043_X	1	1	1	1	1	1	1	0	1
117	E32/M54-M044_X	1	0	1	1	1	1	1	0	1
118	E32/M54-M046_X	0	1	0	1	0	0	0	1	0
119	E32/M54-M047_X	0	0	0	0	0	0	0	1	0
120	E32/M54-M048_X	0	0	0	1	0	0	0	0	1
121	E32/M54-M049_X	1	1	1	1	1	0	1	1	0
122	E32/M54-M050_X	1	0	0	0	0	0	0	0	1
123	E32/M54-M051_X	0	0	0	0	0	0	0	1	0
124	E32/M54-M053_X	1	1	1	1	1	1	0	1	0
125	E32/M54-M053_X	0	0	1	1	0	1	1	1	0
126	E32/M54-M054_X	1	1	1	1	0	1	0	1	0
127	E32/M54-M056_X	1	0	1	1	1	0	1	1	1

visual scoring
0: absent, 1: present, *: n.d.

200 500 104

MAIL

AFLP's patterns
of 8 GERMICOPA's Potato Varieties versus Standards cv.BINTJE cv.CHARLOTTE

Table 4

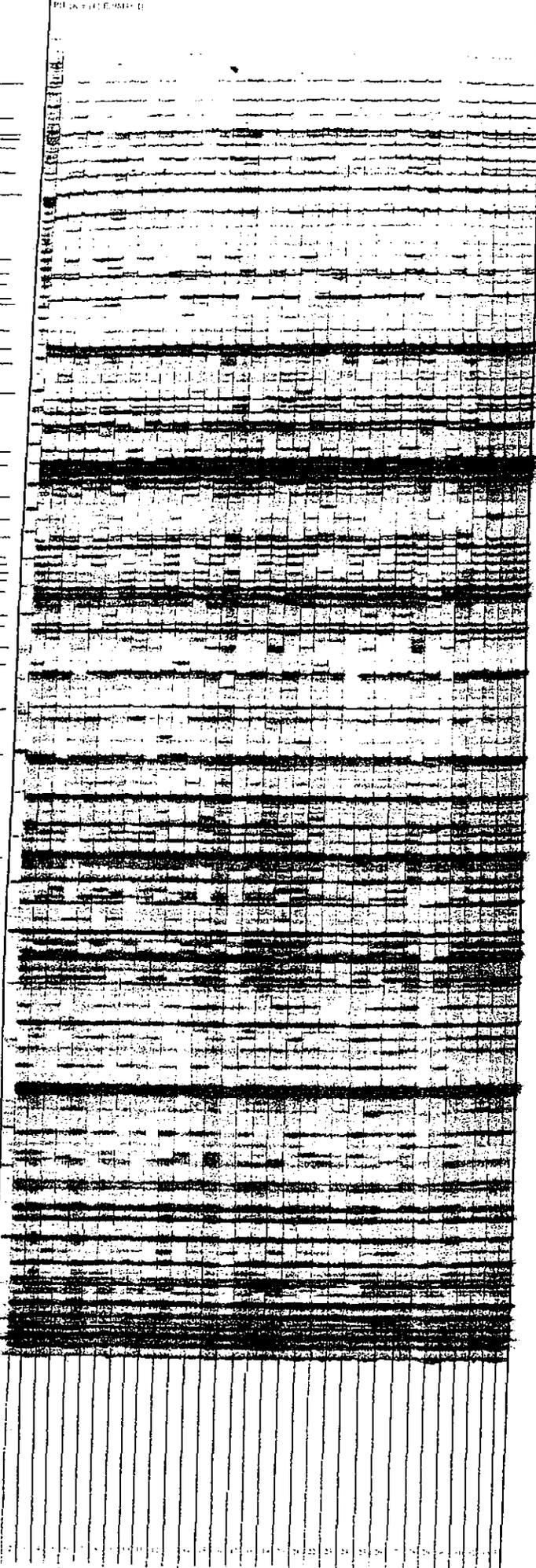
	VARIETY	Anandine	Blondy	Charlotte	Cherie	Cynthia	Juliette	Marline	Sandy	Sylvia	Bintje
	column n°	3	6	8	9	10	15	18	27	29	31
N	marker row n°										
128	E39/M48-M001_X	1	1	1	1	0	1	1	1	1	1
129	E39/M48-M002_X	1	0	1	1	1	1	0	0	1	1
130	E39/M48-M003_X	1	1	1	1	0	1	1	1	1	1
131	E39/M48-M004_X	1	0	1	1	1	1	1	1	1	1
132	E39/M48-M005_X	1	0	0	0	0	0	0	0	0	1
133	E39/M48-M006_X	1	1	1	0	0	0	0	0	1	0
134	E39/M48-M007_X	1	0	0	0	1	1	0	0	1	1
135	E39/M48-M008_X	0	0	0	0	0	0	0	0	0	0
136	E39/M48-M009_X	1	1	1	1	0	0	1	0	1	1
137	E39/M48-M010_X	0	1	0	0	0	0	0	0	0	0
138	E39/M48-M011_X	1	1	1	1	1	1	1	1	1	1
139	E39/M48-M012_X	0	0	0	0	0	0	0	1	0	0
140	E39/M48-M013_X	0	0	0	0	0	0	0	0	0	0
141	E39/M48-M014_X	1	1	1	0	1	1	1	0	1	0
142	E39/M48-M015_X	1	0	0	0	0	1	0	*	1	0
143	E39/M48-M016_X	1	0	0	0	0	0	1	0	0	1
144	E39/M48-M017_X	1	0	1	1	1	1	1	1	1	0
145	E39/M48-M018_X	1	1	0	1	0	1	1	1	1	1
146	E39/M48-M019_X	1	1	1	0	1	0	1	1	1	1
147	E39/M48-M020_X	1	0	1	1	1	1	0	1	1	1
148	E39/M48-M021_X	1	0	1	1	1	1	1	0	1	1
149	E39/M48-M022_X	0	0	0	0	0	0	0	0	0	0
150	E39/M48-M023_X	1	0	1	1	1	1	1	1	1	1
151	E39/M48-M024_X	0	0	0	1	1	1	1	1	1	0
152	E39/M48-M025_X	0	0	0	0	0	0	0	0	0	0
153	E39/M48-M026_X	1	1	1	1	0	1	1	0	1	1
154	E39/M48-M028_X	1	1	1	1	1	1	1	1	1	1
155	E39/M48-M029_X	0	0	0	0	1	0	0	0	0	1
156	E39/M48-M030_X	1	1	1	1	1	1	1	0	0	0
157	E39/M48-M031_X	1	1	1	0	1	1	1	0	1	1
158	E39/M48-M032_X	1	1	1	0	0	0	0	0	1	0
159	E39/M48-M033_X	1	0	0	1	0	0	1	0	0	1
160	E39/M48-M035_X	1	1	0	0	1	1	1	1	1	1
161	E39/M48-M036_X	0	0	1	1	1	1	0	1	1	1
162	E39/M48-M037_X	1	1	1	1	1	1	0	1	1	1
163	E39/M48-M038_X	0	1	0	1	1	0	1	1	1	0

visual scoring

0: absent, 1: present, *: m.d.

200 100 104

AP0011
M00211
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AFLP's patterns of 8 GERMICOPA's Potato Varieties versus Standards cv.BINTJE cv.CHARLOTTE

Table 5

VARIETY	column n°	Amandine	Blondy	Charlotte	Cherie	Cynthia	Juliette	Marine	Sandy	Sylvia	Bintje
		3	6	8	9	10	15	18	27	29	31
N	marker row n°										
164	E39M49-M001_X	0	0	0	0	0	1	1	1	1	0
165	E39M49-M002_X	1	1	1	0	0	0	0	1	0	1
166	E39M49-M003_X	0	0	0	0	1	0	1	1	0	1
167	E39M49-M004_X	1	0	1	0	0	1	1	1	1	1
168	E39M49-M005_X	1	0	1	1	1	1	1	1	1	1
169	E39M49-M006_X	0	0	0	0	0	0	0	0	0	0
170	E39M49-M007_X	*	1	1	1	0	0	0	1	1	1
171	E39M49-M008_X	0	1	0	0	0	0	1	0	1	0
172	E39M49-M009_X	1	1	1	1	1	1	1	1	1	0
173	E39M49-M010_X	1	0	0	0	0	1	0	0	0	1
174	E39M49-M011_X	1	1	1	1	1	1	0	1	1	0
175	E39M49-M012_X	0	1	0	1	0	1	0	0	0	1
176	E39M49-M013_X	1	0	1	1	1	1	1	1	1	0
177	E39M49-M014_X	1	1	1	1	0	0	1	1	0	1
178	E39M49-M015_X	0	*	0	0	0	1	0	0	0	1
179	E39M49-M016_X	1	0	1	1	0	1	1	1	1	0
180	E39M49-M017_X	1	0	1	1	1	1	1	1	1	1
181	E39M49-M018_X	0	1	0	0	1	0	0	0	1	0
182	E39M49-M019_X	0	0	0	0	0	1	0	0	0	0
183	E39M49-M020_X	0	0	1	1	1	1	1	0	1	0
184	E39M49-M021_X	1	0	1	1	1	1	0	0	1	1
185	E39M49-M022_X	1	1	1	1	1	1	1	1	1	1
186	E39M49-M023_X	1	0	1	0	1	1	0	0	1	0
187	E39M49-M024_X	1	1	0	0	0	0	0	0	0	1
188	E39M49-M025_X	1	1	1	1	0	1	0	1	1	1
189	E39M49-M026_X	0	0	0	1	0	1	0	0	0	1
190	E39M49-M027_X	0	0	0	0	0	0	0	0	0	0
191	E39M49-M028_X	1	1	1	1	1	1	1	0	0	1
192	E39M49-M029_X	1	0	1	0	1	0	0	0	1	0
193	E39M49-M030_X	1	1	1	0	0	0	0	0	1	0
194	E39M49-M031_X	1	1	0	1	0	1	0	1	0	0
195	E39M49-M032_X	1	1	0	1	0	0	1	1	0	0
196	E39M49-M033_X	1	0	1	1	1	1	1	1	1	1
197	E39M49-M034_X	0	1	0	0	1	1	0	0	1	1
198	E39M49-M035_X	0	0	0	0	0	0	0	0	0	0
199	E39M49-M036_X	*	1	1	1	1	1	1	1	1	1
200	E39M49-M037_X	1	1	1	1	0	1	1	1	1	1
201	E39M49-M038_X	*	0	0	0	0	0	0	0	0	1
202	E39M49-M039_X	0	0	0	0	0	0	1	0	0	0
203	E39M49-M040_X	0	1	1	1	1	1	1	0	0	1
204	E39M49-M041_X	1	1	0	1	0	1	0	1	0	0
205	E39M49-M042_X	0	1	0	1	0	0	0	1	0	0
206	E39M49-M043_X	1	1	0	0	0	1	0	1	0	1
207	E39M49-M044_X	1	1	1	0	1	1	1	1	1	1
208	E39M49-M045_X	1	0	1	1	0	0	1	0	1	0
209	E39M49-M046_X	1	1	0	1	1	1	0	1	1	1
210	E39M49-M047_X	1	0	1	0	1	1	1	1	1	1
211	E39M49-M048_X	0	0	0	0	1	0	0	0	0	0
212	E39M49-M049_X	0	0	0	0	0	0	0	0	0	0
213	E39M49-M050_X	1	1	1	0	1	1	1	1	1	1
214	E39M49-M051_X	1	1	1	1	1	0	1	1	1	1

visual scoring

0: absent, 1: present, *: n.d.

MO0111

MO0211

MO0311

MO0411

MO1111

MO0511

MO0611

MO0711

MO0811

MO0911

MO1011

MO1111

MO2111

MO1211

MO1311

MO1411

MO1511

MO1611

MO1711

MO1811

MO1911

MO2011

MO2111

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MO3011

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MO4011

MO4111

MO4211

MO4311

MO4411

MO4511

MO4611

MO4711

MO4811

MO4911

MO5011

MO5111

MO5211

MO5311

MO5411

MO5511

MO5611

MO5711

MO5811

MO5911

MO6011

MO6111

MO6211

MO6311

MO6411

MO6511

MO6611

MO6711

MO6811

MO6911

MO7011



AFLP's patterns
of 8 GERMICOPA's Potato Varieties versus Standards cv.BINTJE cv.CHARLOTTE

Table 6

N	VARIETY	Amandine	Blondy	Charlotte	Cherie	Cynthia	Juliette	Marine	Sandy	Sylvia	Bintje
	column n°	3	6	8	9	10	15	18	27	29	31
	marker										
	row n°										
215	E39/M61-M001_X	0	0	0	1	1	0	0	0	0	1
216	E39/M61-M002_X	1	1	1	1	1	1	1	1	1	1
217	E39/M61-M003_X	1	0	1	0	1	0	0	1	0	0
218	E39/M61-M004_X	0	0	0	0	0	0	0	0	0	0
219	E39/M61-M005_X	1	0	0	0	0	0	0	0	0	1
220	E39/M61-M006_X	1	0	1	0	1	0	0	1	0	0
221	E39/M61-M007_X	1	0	1	0	0	1	0	1	0	1
222	E39/M61-M008_X	1	0	0	0	0	0	0	1	0	0
223	E39/M61-M009_X	1	1	1	1	0	1	1	1	1	1
224	E39/M61-M010_X	0	0	0	0	0	0	0	0	0	0
225	E39/M61-M011_X	0	0	0	1	1	1	0	1	1	1
226	E39/M61-M012_X	0	0	0	0	0	0	0	0	0	0
227	E39/M61-M013_X	1	1	1	1	1	0	1	1	1	0
228	E39/M61-M014_X	0	0	1	0	1	1	1	1	1	0
229	E39/M61-M015_X	0	1	1	1	0	0	0	0	0	1
230	E39/M61-M016_X	1	0	1	1	1	1	0	0	0	0
231	E39/M61-M017_X	0	1	0	0	1	0	0	0	0	0
232	E39/M61-M018_X	1	*	1	1	1	1	1	1	1	1
233	E39/M61-M019_X	1	1	0	1	1	1	1	0	0	1
234	E39/M61-M020_X	0	0	0	0	0	0	0	0	0	0
235	E39/M61-M021_X	1	0	0	0	0	0	0	0	0	0
236	E39/M61-M022_X	0	1	1	1	0	0	0	1	0	0
237	E39/M61-M023_X	0	0	0	0	0	0	0	0	0	0
238	E39/M61-M024_X	0	1	0	0	1	0	0	0	0	1
239	E39/M61-M025_X	0	0	0	0	0	0	0	0	0	0
240	E39/M61-M026_X	1	1	1	0	1	1	0	0	1	0
241	E39/M61-M027_X	1	1	1	1	1	1	0	0	0	0
242	E39/M61-M028_X	0	0	0	0	0	0	1	0	0	1
243	E39/M61-M029_X	0	1	0	1	1	0	1	1	1	0
244	E39/M61-M030_X	1	1	1	1	1	1	1	1	0	1
245	E39/M61-M031_X	1	1	1	1	1	1	1	0	1	1
246	E39/M61-M032_X	0	0	0	0	0	0	0	0	0	1
247	E39/M61-M033_X	1	1	1	1	1	1	1	1	0	1
248	E39/M61-M034_X	0	0	0	1	0	0	0	1	*	1
249	E39/M61-M035_X	1	1	1	1	0	1	1	*	1	0

visual scoring
0: absent, 1: present, *: m.d.



GERMICOPA

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AFLP's patterns of 8 GERMICOPA's Potato Varieties versus Standards cv.BINTJE cv.CHARLOTTE

Table 7

N	VARIETY column n°	marker										
		3	6	8	9	10	15	18	27	29	31	
250	E36M59-M001_X	1	1	1	1	1	1	1	0	1	1	
251	E36M59-M002_X	1	1	1	1	1	1	1	1	1	1	
252	E36M59-M003_X	1	0	1	0	0	1	0	0	0	0	
253	E36M59-M004_X	1	0	1	0	1	1	1	0	1	1	
254	E36M59-M005_X	0	0	0	0	1	0	0	0	1	0	
255	E36M59-M006_X	1	1	1	1	1	1	1	1	1	1	
256	E36M59-M007_X	0	1	1	1	0	0	0	0	1	1	
257	E36M59-M008_X	1	0	0	0	0	0	0	0	0	1	
258	E36M59-M009_X	1	0	1	1	1	1	0	0	0	0	
259	E36M59-M010_X	0	0	0	0	0	1	0	0	0	0	
260	E36M59-M011_X	0	1	0	0	1	0	0	1	1	0	
261	E36M59-M012_X	1	0	0	1	0	0	1	0	0	1	
262	E36M59-M013_X	0	0	0	0	1	1	0	1	1	0	
263	E36M59-M014_X	1	1	0	0	1	1	1	1	1	1	
264	E36M59-M015_X	0	0	0	0	0	0	0	1	1	1	
265	E36M59-M016_X	1	1	1	1	1	1	0	1	1	1	
266	E36M59-M017_X	0	0	0	0	0	0	1	1	0	1	
267	E36M59-M018_X	1	1	1	1	1	1	1	1	1	0	
268	E36M59-M019_X	1	1	0	1	0	0	0	1	0	0	
269	E36M59-M020_X	1	0	1	0	1	0	1	0	1	0	
270	E36M59-M021_X	0	0	0	0	0	0	0	1	0	0	
271	E36M59-M022_X	0	1	0	0	1	0	0	0	0	1	
272	E36M59-M023_X	0	1	0	0	0	0	0	0	0	0	
273	E36M59-M024_X	0	1	0	1	1	1	1	1	0	1	
274	E36M59-M025_X	0	0	1	1	1	1	0	1	1	1	
275	E36M59-M026_X	1	0	1	1	1	1	0	1	0	1	
276	E36M59-M027_X	1	0	1	0	1	1	1	1	1	0	
277	E36M59-M028_X	1	1	1	0	1	1	1	1	1	1	
278	E36M59-M029_X	1	0	1	0	1	0	1	1	0	1	
279	E36M59-M030_X	0	1	0	0	1	0	0	0	1	1	
280	E36M59-M031_X	0	0	0	1	1	0	0	0	1	0	
281	E36M59-M032_X	0	1	0	0	1	0	1	0	0	1	
282	E36M59-M033_X	0	1	0	0	1	1	0	0	1	1	
283	E36M59-M034_X	0	1	0	0	1	0	1	0	0	1	
284	E36M59-M035_X	0	1	1	1	0	0	0	0	0	0	
285	E36M59-M036_X	0	1	0	0	0	1	0	0	0	0	
286	E36M59-M037_X	1	0	1	1	0	1	1	1	1	1	
287	E36M59-M038_X	0	0	1	1	0	0	1	1	1	1	
288	E36M59-M039_X	0	0	0	0	1	0	0	0	0	0	
289	E36M59-M040_X	1	1	1	1	1	1	1	1	1	0	

N	VARIETY column n°	marker				
		38	41	43	44	45
290	E36M59-M001_X	0	1	0	0	0
291	E36M59-M002_X	0	1	0	0	0
292	E36M59-M003_X	1	0	1	0	0
293	E36M59-M004_X	0	0	0	0	0
294	E36M59-M005_X	1	1	1	1	1
295	E36M59-M006_X	0	1	0	0	0
296	E36M59-M007_X	1	0	1	0	1
297	E36M59-M008_X	1	1	1	1	0
298	E36M59-M009_X	1	0	1	1	0
299	E36M59-M010_X	0	0	0	0	0
300	E36M59-M011_X	1	1	1	1	1
301	E36M59-M012_X	0	1	0	1	0
302	E36M59-M013_X	1	1	1	1	1
303	E36M59-M014_X	1	1	1	1	1
304	E36M59-M015_X	0	0	0	0	0
305	E36M59-M016_X	0	0	0	0	0
306	E36M59-M017_X	0	1	0	0	0
307	E36M59-M018_X	0	0	0	0	1
308	E36M59-M019_X	1	0	1	0	0
309	E36M59-M020_X	1	1	1	1	1
310	E36M59-M021_X	0	0	0	0	0
311	E36M59-M022_X	0	1	0	0	0
312	E36M59-M023_X	0	0	0	0	1
313	E36M59-M024_X	0	0	0	0	0
314	E36M59-M025_X	0	0	0	0	0
315	E36M59-M026_X	1	1	1	1	0
316	E36M59-M027_X	1	1	1	0	0
317	E36M59-M028_X	1	1	1	1	1
318	E36M59-M029_X	1	1	1	0	1
319	E36M59-M030_X	0	1	0	0	0
320	E36M59-M031_X	0	1	0	0	0
321	E36M59-M032_X	1	1	1	1	1
322	E36M59-M033_X	0	0	0	0	0
323	E36M59-M034_X	1	1	1	1	1
324	E36M59-M035_X	0	0	0	0	0
325	E36M59-M036_X	0	0	0	1	0
326	E36M59-M037_X	0	0	0	0	1
327	E36M59-M038_X	0	0	0	0	0
328	E36M59-M039_X	0	0	0	0	0
329	E36M59-M040_X	0	0	0	0	0
330	E36M59-M041_X	1	1	1	1	*
331	E36M59-M042_X	0	0	0	0	0
332	E36M59-M043_X	1	0	1	1	0
333	E36M59-M044_X	0	*	0	0	0
334	E36M59-M045_X	1	1	1	1	0
335	E36M59-M046_X	0	*	0	0	0
336	E36M59-M047_X	1	1	1	1	1
337	E36M59-M048_X	1	1	1	1	1
338	E36M59-M049_X	1	0	1	0	1
339	E36M59-M050_X	0	0	0	0	0
340	E36M59-M051_X	1	1	1	0	1
341	E36M59-M052_X	1	1	1	1	1
342	E36M59-M053_X	1	1	1	1	1
343	E36M59-M054_X	1	1	1	1	1
344	E36M59-M055_X	1	1	1	1	0
345	E36M59-M056_X	0	0	0	0	0
346	E36M59-M057_X	1	0	1	1	1
347	E36M59-M058_X	0	0	0	0	0
348	E36M59-M059_X	1	0	1	1	0

visual scoring

0: absent, 1: present, *: m.d.

AFLP's patterns
of 8 GERMICOPA's Potato Varieties versus Standards cv.BINTJE cv.CHARLOTTE

Table 8

N	VARIETY column n°	Juliette		Marine		Sandy		Sylvia		Bintje	
		3	6	15	17	19	19	19	19	19	
	marker row n°										
290	E36M59-M001_X	0	0	0	1	1					
291	E36M59-M002_X	0	1	1	1	1					
292	E36M59-M003_X	1	0	0	0	1					
293	E36M59-M004_X	0	0	0	0	0					
294	E36M59-M005_X	1	1	1	1	0					
295	E36M59-M006_X	0	0	0	0	0					
296	E36M59-M007_X	0	0	1	0	0					
297	E36M59-M008_X	1	1	1	1	1					
298	E36M59-M009_X	0	0	0	0	1					
299	E36M59-M010_X	0	0	0	0	1					
300	E36M59-M011_X	0	1	1	1	1					
301	E36M59-M012_X	1	1	1	1	1					
302	E36M59-M013_X	1	1	1	1	0					
303	E36M59-M014_X	1	1	1	1	1					
304	E36M59-M015_X	0	1	0	0	0					
305	E36M59-M016_X	0	0	0	0	1					
306	E36M59-M017_X	0	0	0	1	0					
307	E36M59-M018_X	1	0	0	1	0					
308	E36M59-M019_X	1	0	1	0	0					
309	E36M59-M020_X	1	1	1	1	1					
310	E36M59-M021_X	0	0	0	0	0					
311	E36M59-M022_X	0	0	0	0	0					
312	E36M59-M023_X	0	1	0	1	0					
313	E36M59-M024_X	0	0	0	0	0					
314	E36M59-M025_X	0	0	0	0	0					
315	E36M59-M026_X	0	0	0	0	1					
316	E36M59-M027_X	1	0	1	1	0					
317	E36M59-M028_X	1	1	1	1	1					
318	E36M59-M029_X	1	0	1	0	1					
319	E36M59-M030_X	0	0	1	0	0					
320	E36M59-M031_X	1	1	1	0	1					
321	E36M59-M032_X	1	1	1	0	1					
322	E36M59-M033_X	0	0	0	0	0					
323	E36M59-M034_X	1	1	1	1	1					
324	E36M59-M035_X	1	1	0	0	0					
325	E36M59-M036_X	0	0	0	0	0					
326	E36M59-M037_X	0	1	0	1	0					
327	E36M59-M038_X	1	0	0	0	0					
328	E36M59-M039_X	0	0	0	0	0					
329	E36M59-M040_X	0	1	0	1	0					
330	E36M59-M041_X	1	0	1	0	1					
331	E36M59-M042_X	0	0	0	0	0					
332	E36M59-M043_X	0	0	0	0	0					
333	E36M59-M044_X	0	0	1	0	0					
334	E36M59-M045_X	0	1	1	0	1					
335	E36M59-M046_X	1	0	1	0	0					
336	E36M59-M047_X	1	1	1	1	1					
337	E36M59-M048_X	1	1	1	1	0					
338	E36M59-M049_X	1	0	0	1	1					
339	E36M59-M050_X	0	0	1	0	0					
340	E36M59-M051_X	1	1	1	1	1					
341	E36M59-M052_X	1	1	0	1	0					
342	E36M59-M053_X	1	1	1	1	1					
343	E36M59-M054_X	1	1	1	0	1					
344	E36M59-M055_X	1	0	0	0	0					
345	E36M59-M056_X	0	0	0	0	0					
346	E36M59-M057_X	0	1	1	1	1					
347	E36M59-M058_X	0	0	0	0	0					
348	E36M59-M059_X	1	1	1	1	1					

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M0111

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M72111

M73111

M74111

M75111

M76111

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M78111

M79111

M80111

AFLP's patterns
of 8 GERMICOPA's Potato Varieties versus Standards cv.BINTJE cv.CHARLOTTE

Table 9

	VARIETY	Amandine	Blondy	Charlotte	Cherie	Cynthia	Juliette	Marine
	column n°	3	6	8	9	10	15	18
N	marker row n°							
349	E39/M51-M001_X	0	0	1	1	0	0	1
350	E39/M51-M002_X	0	0	0	0	0	1	0
351	E39/M51-M003_X	1	0	1	1	1	1	0
352	E39/M51-M004_X	0	0	0	0	1	1	0
353	E39/M51-M005_X	0	1	0	0	1	0	0
354	E39/M51-M006_X	1	0	0	0	0	0	1
355	E39/M51-M007_X	1	1	1	1	1	1	1
356	E39/M51-M008_X	0	1	0	0	0	0	0
357	E39/M51-M009_X	0	1	0	0	0	0	1
358	E39/M51-M010_X	1	1	1	1	1	1	0
359	E39/M51-M011_X	0	0	1	0	0	1	0
360	E39/M51-M012_X	0	0	1	1	1	0	0
361	E39/M51-M013_X	1	1	1	1	1	1	1
362	E39/M51-M014_X	0	0	1	1	1	1	1
363	E39/M51-M015_X	0	0	0	0	0	0	0
364	E39/M51-M016_X	0	0	0	0	0	1	0
365	E39/M51-M017_X	0	1	1	0	*	1	0
366	E39/M51-M018_X	1	1	1	0	1	0	0
367	E39/M51-M019_X	1	1	0	0	1	0	1
368	E39/M51-M020_X	1	0	1	1	1	0	1
369	E39/M51-M021_X	0	0	1	1	1	1	1
370	E39/M51-M022_X	1	1	1	1	1	1	1
371	E39/M51-M023_X	0	0	0	0	0	0	0
372	E39/M51-M024_X	0	0	0	0	0	0	1
373	E39/M51-M025_X	1	0	1	1	0	1	1
374	E39/M51-M026_X	0	1	0	0	0	0	0
375	E39/M51-M027_X	1	0	0	0	1	1	0
376	E39/M51-M028_X	0	0	0	0	0	0	0
377	E39/M51-M029_X	1	1	1	1	1	1	1
378	E39/M51-M030_X	1	0	1	1	1	1	1
379	E39/M51-M031_X	1	0	1	1	0	1	1
380	E39/M51-M032_X	0	1	0	0	1	0	0
381	E39/M51-M033_X	0	0	0	0	0	0	0
382	E39/M51-M034_X	1	1	1	0	0	0	0
383	E39/M51-M035_X	0	0	0	0	1	1	0
384	E39/M51-M036_X	1	1	1	1	0	1	1
385	E39/M51-M037_X	*	*	*	*	*	1	1

visual scoring

0: absent, 1: present, *: m.d.

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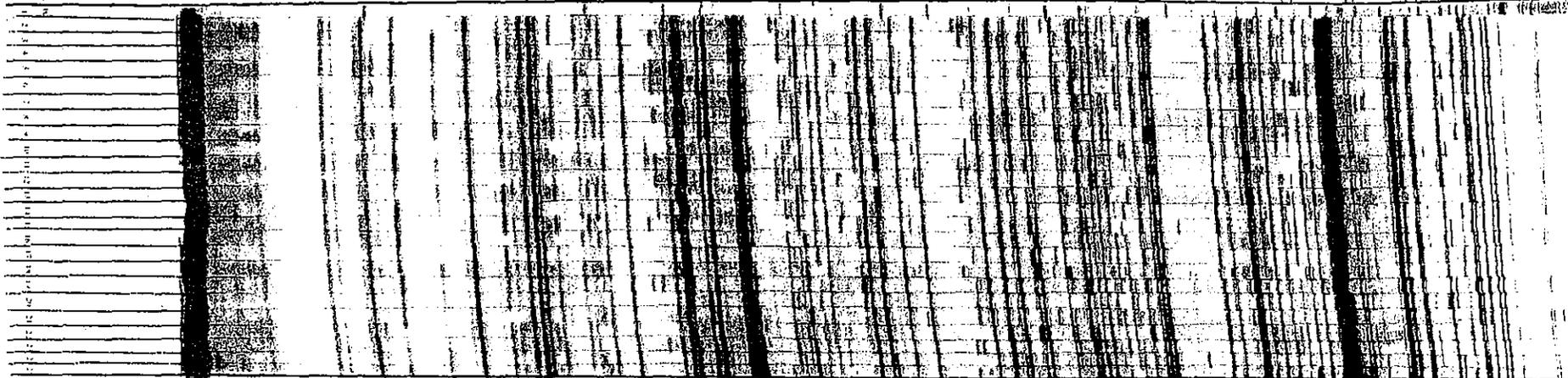
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AFLP's patterns
of 8 GERMICOPA's Potato Varieties versus Standards cv.BINTJE cv.CHARLOTTE

Table 10

N	VARIETY	Sandy	Sylvia	Bintje
	column n° marker row n°	3	5	7
349	E39/M51-M001_X	0	0	1
350	E39/M51-M002_X	0	0	0
351	E39/M51-M003_X	0	1	1
352	E39/M51-M004_X	1	1	0
353	E39/M51-M005_X	0	0	0
354	E39/M51-M006_X	1	0	1
355	E39/M51-M007_X	1	1	1
356	E39/M51-M008_X	1	1	1
357	E39/M51-M009_X	0	1	1
358	E39/M51-M010_X	1	1	0
359	E39/M51-M011_X	0	0	1
360	E39/M51-M012_X	1	0	1
361	E39/M51-M013_X	1	1	1
362	E39/M51-M014_X	0	1	1
363	E39/M51-M015_X	0	0	0
364	E39/M51-M016_X	0	0	0
365	E39/M51-M017_X	1	0	0
366	E39/M51-M018_X	1	1	1
367	E39/M51-M019_X	1	1	1
368	E39/M51-M020_X	1	1	1
369	E39/M51-M021_X	1	1	1
370	E39/M51-M022_X	1	0	1
371	E39/M51-M023_X	0	0	0
372	E39/M51-M024_X	0	0	0
373	E39/M51-M025_X	1	1	1
374	E39/M51-M026_X	0	0	0
375	E39/M51-M027_X	0	1	1
376	E39/M51-M028_X	0	0	0
377	E39/M51-M029_X	1	1	1
378	E39/M51-M030_X	1	1	1
379	E39/M51-M031_X	1	1	1
380	E39/M51-M032_X	0	0	1
381	E39/M51-M033_X	0	0	0
382	E39/M51-M034_X	0	1	0
383	E39/M51-M035_X	0	0	1
384	E39/M51-M036_X	1	1	0
385	E39/M51-M037_X	1	1	1

N	VARIETY	Amandine	Blondy	Charlotte	Cherie	Cynthia	Juliette	Marine	Sandy	Sylvia	Bintje
	column n° marker row n°	14	17	19	20	21	26	29	38	40	42
386	E36/M47-M001_X	0	1	0	1	0	0	0	1	0	0
387	E36/M47-M002_X	0	1	0	1	0	0	0	1	0	0
388	E36/M47-M003_X	0	0	0	1	1	1	0	0	1	0
389	E36/M47-M004_X	1	0	1	0	0	1	1	1	1	1
390	E36/M47-M005_X	1	1	1	1	1	1	0	1	1	1
391	E36/M47-M006_X	1	1	0	1	1	0	0	0	0	1
392	E36/M47-M007_X	1	1	1	1	1	1	1	1	1	1
393	E36/M47-M008_X	0	1	0	1	1	1	1	0	1	1
394	E36/M47-M009_X	0	1	1	1	0	1	1	1	1	1
395	E36/M47-M010_X	0	0	0	0	1	0	0	1	0	1
396	E36/M47-M011_X	1	1	1	0	1	1	1	1	0	1
397	E36/M47-M012_X	0	1	1	1	1	1	1	1	1	1
398	E36/M47-M013_X	0	1	0	0	1	0	1	0	0	1
399	E36/M47-M014_X	1	1	1	1	1	1	1	0	0	1
400	E36/M47-M015_X	1	1	1	1	1	1	1	1	1	1
401	E36/M47-M016_X	0	0	1	0	0	0	0	0	0	0
402	E36/M47-M017_X	1	0	1	0	1	1	1	0	1	1
403	E36/M47-M018_X	0	0	0	0	0	1	0	0	0	0
404	E36/M47-M019_X	0	0	0	1	0	0	0	0	0	0
405	E36/M47-M020_X	1	1	1	1	1	0	1	1	0	1
406	E36/M47-M021_X	0	0	0	1	0	0	0	0	0	0
407	E36/M47-M022_X	1	0	0	0	0	0	0	0	0	0
408	E36/M47-M023_X	1	0	1	1	1	1	1	1	1	1
409	E36/M47-M024_X	0	0	1	0	1	1	1	1	1	0
410	E36/M47-M025_X	0	1	0	0	1	0	1	1	1	0
411	E36/M47-M026_X	1	1	1	1	0	0	1	0	0	1
412	E36/M47-M027_X	0	0	1	1	1	1	1	1	1	1
413	E36/M47-M028_X	1	0	0	1	1	1	0	1	1	0
414	E36/M47-M029_X	0	0	0	0	0	0	0	1	0	1
415	E36/M47-M030_X	1	1	1	0	0	0	0	0	1	0
416	E36/M47-M031_X	0	0	0	0	0	1	0	0	0	0
417	E36/M47-M032_X	0	0	1	0	0	0	0	1	0	1
418	E36/M47-M033_X	0	0	0	0	1	0	0	0	0	1
419	E36/M47-M034_X	1	0	0	0	1	1	0	0	1	1
420	E36/M47-M035_X	1	1	1	1	1	1	1	1	1	1

visual scoring

0: absent, 1: present, *: m.d.

U.S. DEPARTMENT OF AGRICULTURE
 AGRICULTURAL MARKETING SERVICE

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). The information is held confidential until the certificate is issued (7 U.S.C. 2426).

**EXHIBIT E
 STATEMENT OF THE BASIS OF OWNERSHIP**

1. NAME OF APPLICANT(S) GERMICOPA SAS	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER G86TT278.3	3. VARIETY NAME JULIETTE
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country) Allee Loeiz Herrieu, 1 29334 Quimper Cedex France	5. TELEPHONE (Include area code) 33 298 100 100	6. FAX (Include area code) 33 298 100 120
7. PVPO NUMBER #200100104		

8. Does the applicant own all rights to the variety? Mark an "X" in the appropriate block. If no, please explain. YES NO

9. Is the applicant (individual or company) a U.S. national or a U.S. based company? If no, give name of country. YES NO
France **6-29-2007** **LMC per original**

10. Is the applicant the original owner? YES NO If no, please answer one of the following:

a. If the original rights to variety were owned by individual(s), is (are) the original owner(s) a U.S. National(s)? YES NO If no, give name of country

b. If the original rights to variety were owned by a company(ies), is (are) the original owner(s) a U.S. based company? YES NO If no, give name of country

11. Additional explanation on ownership (Trace ownership from original breeder to current owner. Use the reverse for extra space if needed):
 The breeder, Eric Bonnel, is a Germicopa employee. He is a Research and Development Manager. The ownership of any new breed variety, including Juliette, has been given to Germicopa by contract.

PLEASE NOTE:

Plant variety protection can only be afforded to the owners (not licensees) who meet the following criteria:

1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed the final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definitions.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 0.1 hour per response, including the time for reviewing the instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, sexual orientation, marital or family status, political beliefs, parental status, or protected genetic information. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, D.C. 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provide and employer.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 5 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, sexual orientation, marital or family status, political beliefs, parental status, or protected genetic information. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

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**U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY
PLANT VARIETY PROTECTION OFFICE
BELTSVILLE, MD 20705**

**EXHIBIT F
DECLARATION REGARDING DEPOSIT**

NAME OF OWNER (S) <p align="center">GERMICOPA SAS</p>	ADDRESS (Street and No. or RD No., City, State, and Zip Code and Country) Allee Loeiz Herrieu, 1 29334 Quimper Cedex France	TEMPORARY OR EXPERIMENTAL DESIGNATION
NAME OF OWNER REPRESENTATIVE (S) Brian C. Cholewa	ADDRESS (Street and No. or RD No., City, State, and Zip Code and Country) Quarles & Brady LLP P.O. Box 2113 Madison, WI 53701	VARIETY NAME <p align="center">JULIETTE</p> <hr/> PVP# NUMBER <p align="center">#200100104</p>

I do hereby declare that during the life of the certificate a viable sample of propagating material of the subject variety will be deposited, and replenished as needed periodically, in a public repository in the United States in accordance with the regulations established by the Plant Variety Protection Office.

Brian C. Cholewa
Signature

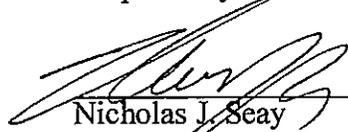
May 22, 2007
Date

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE
POTATO VARIETY JULIETTE
FILED FEBRUARY 6, 2001

STATEMENT REGARDING DEPOSIT

On behalf of the applicant of this application, Germicopa S.A., the applicant does hereby declare that during the pendency of this application for plant variety protection certificate, as requested by the Plant Variety Protection Office, the applicant will deposit a viable sample propagatable material of the above-identified potato variety and will replenish that deposit periodically as needed in a public depository in accordance with regulations established or the requirements of the Plant Variety Protection Office for potato varieties.

Respectfully submitted,



Nicholas J. Seay
Attorney for Applicant
Quarles & Brady LLP
P O Box 2113
Madison, WI 53701-2113
(608)251-5000